MEETING ON MARCH 25,1982 OBJECT - RS-232/Parallel peripheral

Notes for meeting on March 25,1982 to discuss the following issues on RS-232/Parallel peripheral:

- 1 Theoretical configuration of RS-232: TERMINAL vs SET
- 2 Physical way to bring parallel port signals outside
- 3 Heat dissipation problem

Terminal — uses DTR as output and DSR and DCD as inputs; Set — uses DTR as input and DSR and DCD as outputs;

The following table shows the equipment which is currently available and format it uses:

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INTERFACES (standard):

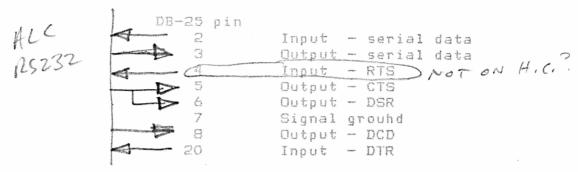
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Note - APPLE I/O board interfaces like Terminal but ommits DSR line.

TI 99/4 interfaces like Set but ommits RTS line, interchanges lines RxD and TxD, and uses CTS as output.



Proposed pinout for RS-232 port interfacing like Set:



Interface:

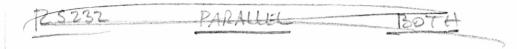
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The problems encountered with current implementation:

- 1 Requirement for special cable to use with parallel port
- 2 Some commercially available equipment provides connection for unused pins on RS-232 connector to high voltage or ground

Solutions:

- 1 Stay with current implementation, provide special cable and apply restrictions on users
- 2 Use special configuration inside the unit
- 3 Use edge connector and provide special interface card
- 4 Use of internal jumpers (requires 13 jumpers)
- 5 Provide protection against undesirable voltages



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CABLE FROM INSIDE DIRECTLY TO PARACUEC.

Heat dissipation — the table below shows the power required: for the RS-232/Parallel peripheral:

Part		Imax	Units
TMS-7000	80	190	mA 1/0
6551 (UART)	35	60	mA
75189	20	The same	. mA
LED	22	25	mA
ASTEC(DC-DC)	160	260	mA - A
Power Supply	100	150	mA mA
(if internal)	à.	/	
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Solutions:

Provide slots for air circulation.

